

Patent Claims

1. A process for the handling of objects, such as containers (4), particularly bottles, whereby the containers (4) are handed over to an intake station (5) on a rotating conveyor (2), conveyed by the rotating conveyor (2) first to a discharge station (10) and again to the intake station (5), past the discharge station (10) and, no sooner than upon the second reaching of the discharge station (10), are removed from the rotating conveyor (2), whereby one section (16) in the direction of transport (A) between the intake station (5) and the discharge station (10) is passed through multiple times.

2. A process in accordance with claim 1, characterized in that, the section (16) is passed through two times, and that, upon every passage of the rotating conveyor (2) in the intake station (5), only every second conveying station (3) on the rotating conveyor (2) is occupied, and, in the discharge station (10), only every second conveying station (8), displaced by one conveying station (3) relative to the intake station (5), is emptied.

3. A process in accordance with claim 1 or 2, characterized in that, a processing of the container (4) is carried out in the section multiply passed through (16), between the intake station (5) and the discharge station (10).

4. A process in accordance with claim 3, characterized in that, the processing of the same container (4) is carried out upon every passage through the multiple through-passage section (16).

5. A process in accordance with one of the claims 1 to 4, characterized in that, the section multiply passed through (16) is shorter than half the rotating section of the rotating conveyor (2), and that the containers (4) only pass through this shorter section (16) after the intake.

6. A device for the handling of objects, such as containers (4), particularly bottles, with a rotating conveyor (2), on which an intake station (5) and a discharge station (10) are positioned, whereby the section (16) in the direction of transport (A)

between the intake- and the discharge station (5, 10) is designed as a multiple through-pass section (16).

7. A device in accordance with claim 6, characterized in that, only every second conveying station (3) of the rotating conveyor (2) is available upon one rotation of the rotating conveyor (2) through the intake station (5), and only every second conveying station (3) of the rotating conveyor (16), displaced relative to the intake station (5) by one conveying station (3), can be emptied by the discharge station (10).

8. A device in accordance with claim 6 or 7, characterized in that, the rotating conveyor (2) has an odd number of conveying stations (3).

9. A device in accordance with one of the claims 6 to 8, characterized in that, the multiple through-passage section (16) has a length that corresponds to less than half the number of conveying stations (3) of the rotating conveyor (2).

10. A device in accordance with one of the claims 6 to 9, characterized in that, the discharge station (10) is, in the direction of transport (A), positioned behind the intake station (5) and directly adjacent to the intake station (5).

11. A device in accordance with one of the claims 6 to 10, characterized in that, a processing device (17) for the containers (4) is positioned in the multiple through-passage section (16).

12. A device in accordance with claim 11, characterized in that, the processing device (17) is a testing device for the repeated, temporally spaced determination of parameters.

13. A device in accordance with one of the claims 6 to 12, characterized in that, the intake station (5) has an intake star wheel (6), the active conveying stations (8) of which have double the spacing distance (b) of the conveying stations (3) of the rotating conveyor (2).

14. A device in accordance with one of the claims 6 to 13, characterized in that, the intake station (5) contains a separating device (9), by means of which the

containers (4) can be brought into a spacing distance (b) corresponding to double the spacing distance (a) of the conveying stations (3) of the rotating conveyor (2).

15. A device in accordance with one of the claims 6 to 14, characterized in that, the discharge station (10) has a discharge star wheel (12), the active conveying stations (13) of which are positioned at a spacing distance (b) which corresponds to double the spacing distance (a) of the conveying stations (3) of the rotating conveyor (2).

16. A device in accordance with one of the claims 6 to 15, characterized by, an intake star wheel (6) supplied by a helical separating unit (9), a carousel (2) with an odd number of conveying stations (3), a discharge star wheel (12), and a testing device (17), whereby the discharge star wheel (12) is positioned, in the direction of transport (A), adjacent to the intake star wheel (6), whereby a double through-passage section (16), on which section the testing device (17) is positioned, is formed between the intake- and the discharge star wheel (6, 12), and whereby, upon one rotation of the carousel (2) through the intake star wheel (6), only every second conveying station (3) of the carousel (2) is available, and only every second conveying station (3), displaced relative to the intake star wheel (6) by one conveying station, can be emptied through the discharge star wheel (12).